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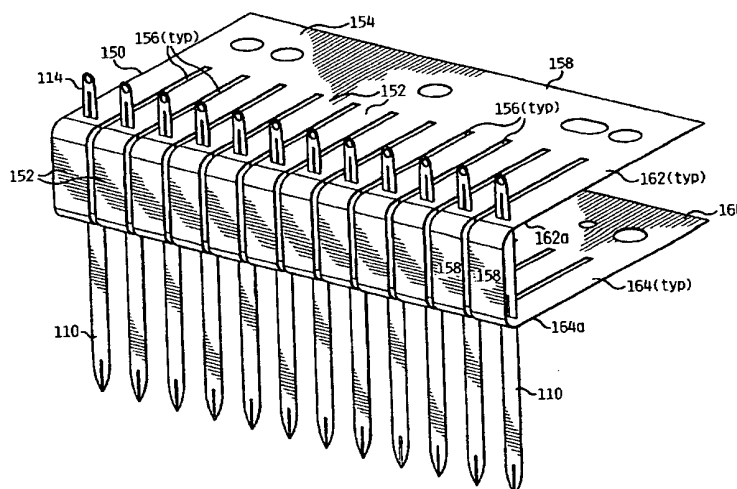
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(54) Title: HIGH DENSITY FLUIDIC CHIP DESIGN AND METHOD OF SAMPLE INJECTION



(57) Abstract: The present invention discloses a high-density parallel channel design for a microfabricated capillary array electrophoresis chip, with vertical T or double T design for sample injection. An alternative embodiment of the invention includes closed buffer reservoirs with integrated electrodes and buffer feeding ports. Also disclosed are novel sample loading and injection methods, including the use of using either a capillary array connected to an electrode, or an array of metal pens (110) as the loader/electrode.

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